

----- Original Message ------ Subject: Re: Plan Disapproval

Date: Mon, 11 Feb 2019 13:04:34 -0500 From: Brad Bidgood-VA Carolina Buildings

To: adriggers@harnett.org

Truss drawings are attached.

The windows are as follows:

#1 - 3' x 1' fixed #3 - 6' x 1' fixed #1 60" x 36" fixed #2 36" x 54" double hung

THE U FACTOR FOR ALL THE FIXED WINDOWS LISTED IS .32

THE U FACTOR FOR THE 36 X 54 DH NO GRID IS .33

THE SOLAR HEAT GAIN COEFFICIENT (SHGC) FOR ALL THE FIXED WINDOWS YOU LISTED IS .31

THE SOLAR HEAT GAIN COEFFICIENT (SHGC) FOR THE DOUBLE HUNG NO GRIDS IS .30

Insulation: Ceiling R-42 Walls R-19

The slab will be insulated

Thanks,

Donna

Donna Stephenson VA Carolina Buildings 919-480-0973



### Trenco

818 Soundside Rd Edenton, NC 27932

Re: JJO190203 Dalesio

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Truss Builders.

Pages or sheets covered by this seal: E12688400 thru E12688402

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844

SEAL 036322

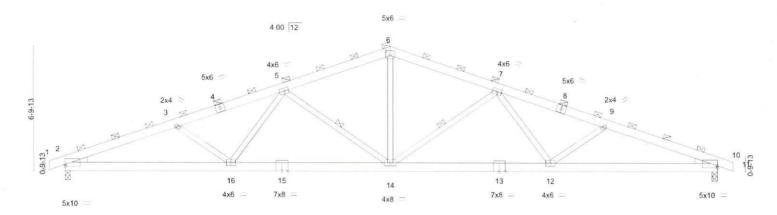
February 11,2019

Gilbert, Eric

**IMPORTANT NOTE:** Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job	Truss	Truss Type		Qty	Ply	Dalesio		
JJO190203	CT1	MOD. QUEEN	MOD. QUEEN				E12688400	
						Job Reference (optional)		
Truss Builders, Inc.,	Morrisville, NC							
				ID:CzN2PJ5KVeXe	DtUNchc(	Di2zmGqu-C3Y5_zKAxHldceK?_0	OxxHPq7LYIQ4fwS3X	7qR3zmGcf
-0-10-8 6-	3-0	12-1-8	18-0-0	23-10-8		29-9-0	36-0-0	36-10-8
0-10-8 6-	3-0	5-10-8	5-10-8	5-10-8		5-10-8	6-3-0	0-10-8
		JJO190203 CT1  Truss Builders, Inc., Morrisville, NC -0-10-8 6-3-0	JJO190203 CT1 MOD. QUEEN  Truss Builders, Inc., Morrisville, NC  -0-10-8 6-3-0 12-1-8	JJO190203 CT1 MOD. QUEEN  Truss Builders, Inc., Morrisville, NC  -0-10-8 6-3-0 12-1-8 18-0-0	JJO190203 CT1 MOD. QUEEN 8  Truss Builders, Inc., Morrisville, NC 8.:  1D:CzN2PJ5KVeXe -0-10-8 6-3-0 12-1-8 18-0-0 23-10-8	JJO190203 CT1 MOD. QUEEN 8 1  Truss Builders, Inc., Morrisville, NC 8.220 s Nov ID:CzN2PJ5KVeXeDtUNchcC 23-10-8 6-3-0 12-1-8 18-0-0 23-10-8	Job Reference (optional)	Job Reference (optional)   Job Reference (opti

Scale = 1:61.0



	9-2-4 9-2-4			18-0-0 8-9-12		26-9-12 8-9-12				36-0-0 9-2-4		
Plate Offsets (X,Y) [2:0-0-0			0-3-1Z				3-2-4					
LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 15.0 TCDL 5.0 BCLL 0.0 * BCDL 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IBC2015/TF	4-0-0 1.15 1.15 NO PI2014	BC	0.73 0.83 0.63 -MR	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.29 -0.45 0.12		I/defl >999 >957 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 235 lb	<b>GRIP</b> 244/190 FT = 6%	

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

2-0-0 oc purlins (2-10-2 max.)

1 Row at midpt

(Switched from sheeted: Spacing > 2-8-0).

Rigid ceiling directly applied or 7-6-1 oc bracing.

5-14, 7-14

LUMBER-

TOP CHORD 2x6 SP No.1D \*Except\*

4-6,6-8: 2x6 SP No.2

**BOT CHORD** 2x6 SP No.1D

**WEBS** 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (lb/size) 2=1870/0-3-8, 10=1870/0-3-8

Max Horz 2=164(LC 12)

Max Uplift 2=-620(LC 8), 10=-620(LC 9)

Max Grav 2=2248(LC 2), 10=2248(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4917/1283, 3-5=-4478/1132, 5-6=-3402/870, 6-7=-3402/870, 7-9=-4478/1132,

9-10=-4917/1284

**BOT CHORD** 2-16=-1235/4530, 14-16=-963/3981, 12-14=-834/3981, 10-12=-1107/4530 WEBS

 $3-16 = -480/311, \, 5-16 = -60/580, \, 5-14 = -1130/461, \, 6-14 = -314/1514, \, 7-14 = -1130/462, \, 3-16 = -480/311, \, 5-16 = -60/580, \, 5-14 = -1130/461, \, 6-14 = -314/1514, \, 7-14 = -1130/462, \, 3-16 = -480/311, \, 5-16 = -60/580, \, 5-14 = -1130/461, \, 6-14 = -314/1514, \, 7-14 = -1130/462, \, 3-16 = -60/580, \, 5-14 = -1130/461, \, 6-14 = -314/1514, \, 7-14 = -1130/462, \, 3-16 = -60/580, \, 5-14 = -1130/461, \, 6-14 = -314/1514, \, 7-14 = -1130/462, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/580, \, 3-16 = -60/58$ 

7-12=-61/580, 9-12=-480/311

#### NOTES-

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=3.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads
- 6) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=620, 10=620.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 11,2019

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

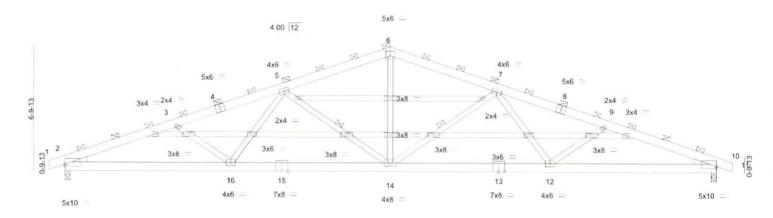
\*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Roa Edenton, NC 27932

Job	Truss	Truss Type		Qt	y Ply		Dalesio		
JJO190203	GE1	GABLE		3		1			E12688401
							Job Reference (optional)		
Truss Builders, Inc.,	Morrisville, NC						6 2018 MiTek Industries, Inc. N		
				ID:CzN2PJ5K	VeXeDtUNcl	hcOi2	2zmGqu-9SgrPfLQTv?LsyUO5p	_PMqvTqMRuYZPIXrc	xWyzmGcd
-0-10-8	6-3-0	12-1-8	18-0-0	23	3-10-8		29-9-0	36-0-0	36-10-8
0-10-8	6-3-0	5-10-8	5-10-8	5	-10-8		5-10-8	6-3-0	0-10-8

Scale = 1:61.0



	9-2-4 9-2-4			18-0-0 8-9-12		26-9-12 8-9-12				36-0-0 9-2-4		
Plate Offsets (X,Y)	2:0-0-0,0-1-4], [6:0-3-0,0-3-0]	, [10:0-0-0,0-1-				0 0 12				3-2-4		
LOADING (psf)       TCLL (roof)     20.0       Snow (Pf)     15.0       TCDL     5.0       BCLL     0.0       BCDL     5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IBC2015/T	4-0-0 1.15 1.15 NO PI2014	CSI. TC BC WB Matri	0.73 0.83 0.63 x-MR	DEFL. Vert(LL) Vert(CT) Horz(CT)		(loc) 12-14 12-14 10	l/defl >999 >957 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 289 lb	<b>GRIP</b> 244/190 FT = 6%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

2-0-0 oc purlins (2-10-2 max.)

1 Row at midpt

(Switched from sheeted: Spacing > 2-8-0).

Rigid ceiling directly applied or 7-6-1 oc bracing.

5-14, 7-14

LUMBER-

TOP CHORD 2x6 SP No.1D \*Except\*

4-6,6-8: 2x6 SP No.2 D 2x6 SP No.1D

BOT CHORD 2x6 SP No.1D WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (lb/size) 2=1870/0-3-8, 10=1870/0-3-8

Max Horz 2=164(LC 12)

Max Uplift 2=-620(LC 8), 10=-620(LC 9) Max Grav 2=2248(LC 2), 10=2248(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4917/1283, 3-5=-4478/1132, 5-6=-3402/870, 6-7=-3402/870, 7-9=-4478/1132,

9-10=-4917/1284

BOT CHORD 2-16=-1235/4530, 14-16=-963/3981, 12-14=-834/3981, 10-12=-1107/4530 WEBS 3-16=-480/311, 5-16=-60/580, 5-14=-1130/461, 6-14=-314/1514, 7-14=-1130/462,

3-16=-480/311, 5-16=-60/580, 5-14=-1130/461, 6-14=-314/1514, 7-14=-1130/462 7-12=-61/580, 9-12=-480/311

7-12--01/300, 9-12--480/31

## NOTES-

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=3.0psf; h=0ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 pst (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 pst (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads.
- 7) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
- 8) Horizontal gable studs spaced at 2-0-0 oc
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=620, 10=620.

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, cerction and bracing of trusses and truss systems, see 

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

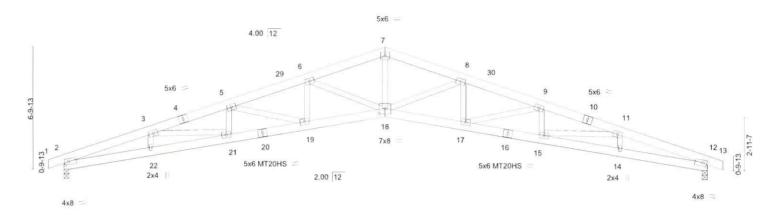




818 Soundside Road Edenton, NC 27932

Job		Truss	Truss Type		Qty	Ply	Dalesio			
JJO190203		SC1	SCISSORS		8	1				E12688402
							Job Refere	nce (optional)		
Truss Buil	ders, Inc.,	Morrisville, NC				8.220 s Nov	16 2018 MiT	ek Industries, Inc. Mor	Feb 11 08:14:48 2	2019 Page 1
					ID:CzN2PJ5KVeX	eDtUNchcOi	2zmGqu-5qn	bpLNg?WF25GemDE0	tRF qi9700S 1 9	51agzmGcb
-0-10-8	4-10-7	9-3-0	13-7-8	18-0-0	22-4-8		26-9-0	31-1-9	36-0-0	36-10-8
0-10-8	4-10-7	4-4-8	4-4-8	4-4-8	4-4-8		4-4-8	4-4-8	4-10-7	0-10-8

Scale = 1:61.8



	4-10-7	9-3-0	13-7-8	1	8-0-0	22-4-8		26-9-0		31-1-9	36-0-0	
4-10-7		4-4-8	4-4-8		4-4-8	4-4-8	4-4-8		4-4-8	4-10-7		
Plate Offsets (	X,Y) [2:0-2-	11,0-2-0], [12:0-2-11,0-2	-0], [18:0-4-0,	0-3-12]								
LOADING (ps TCLL (roof) Snow (Pf) TCDL BCLL BCDL	f) 20.0 15.0 5.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IBC2015/TF	2-0-0 1.15 1.15 NO PI2014	CSI. TC BC WB Matrix	0.64 0.78 0.69 x-MR	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.44 -0.66 0.31	(loc) 18 18 12	l/defl >981 >653 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 235 lb	GRIP 244/190 187/143 FT = 6%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.2 **BOT CHORD** 

2x6 SP No.2 \*Except\*

2-20,12-16: 2x6 SP No.1D

**WEBS** 2x4 SP No.3

REACTIONS. (lb/size) 2=935/0-3-8, 12=935/0-3-8

Max Horz 2=-82(LC 13)

Max Uplift 2=-310(LC 8), 12=-310(LC 9) Max Grav 2=1124(LC 2), 12=1124(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3492/905, 3-5=-4059/1030, 5-6=-3631/887, 6-7=-3070/705, 7-8=-3070/711,

8-9=-3631/830, 9-11=-4059/977, 11-12=-3492/869

**BOT CHORD** 2-22=-875/3244, 21-22=-888/3293, 19-21=-974/3898, 18-19=-787/3460, 17-18=-667/3460,

15-17=-857/3898, 14-15=-788/3293, 12-14=-776/3244

**WEBS** 7-18=-349/1655, 3-22=-260/104, 11-14=-260/100, 3-21=-104/616, 5-19=-503/196

6-18=-631/240, 8-18=-631/245, 9-17=-503/200, 11-15=-121/616

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=3.0psf; BCDL=3.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=15.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.0 psf on overhangs non-concurrent with other live loads
- 6) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) All plates are 4x6 MT20 unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members
- 11) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=310, 12=310.



Structural wood sheathing directly applied or 3-3-5 oc purlins.

Rigid ceiling directly applied or 7-6-9 oc bracing.

🗼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property banage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



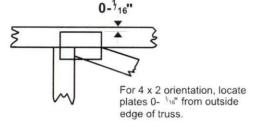
Edenton, NC 27932

# **Symbols**

### PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



This symbol indicates the required direction of slots in connector plates.

\* Plate location details available in MiTek 20/20 software or upon request.

#### PLATE SIZE

4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

#### LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

#### BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

#### Industry Standards:

ANSI/TPI1: National Design Specification for Metal

Plate Connected Wood Truss Construction.

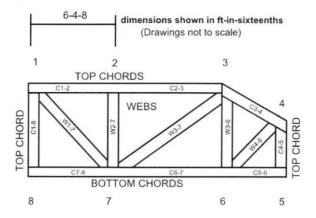
DSB-89: Design Standard for Bracing.

BCSI:

Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate

Connected Wood Trusses.

# **Numbering System**



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

#### PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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# **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.